

## REMARKS

### A. Current Claim Rejections Addressed

Claims 1-4 and 6-21 were rejected in the final Office Action mailed January 4, 2005, as obvious over combinations of *Silber et al* (DE 198 20 734), U.S. Patent No. 6,184,545 to *Werner et al*, and *Readdie et al* (US Patent No. 5,254,869). In response thereto, claims 1-4 and 6-21 have been cancelled and new claims 22-40 are presented for examination herein.

### B. RCE and New Claims Presented for Examination

In order to more properly claim the invention, and to overcome the art of record, new method claims 21-40 are presented for examination. No new matter has been introduced into new claims 21-40. Support for new claims 22-25 and 37-40 is found, inter alia, at page 6, lines 15-19 of the specification and in FIGS. 2 & 3. Support for new claims 26-36 is found, inter alia, in previously cancelled claims 1-21 and in corresponding text found throughout the specification.

Independent claim 22 recites a method of forming a Shottkey barrier diode in which the recited layers are formed, at least two doped regions of a second conductive type in the semiconductor material later are formed

“ . . . by successive implants to form a plurality of stacked bubbles.”

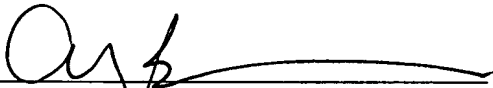
This limitation, in combination with the other method steps, is believed neither taught nor suggested by the references of record. Dependent claims 23-40 also recite the distinguishing limitations direct and indirect dependence from claim 22.

### C. Petition for One-Month Extension and Conclusion

In conclusion, new claims 21-40 are hereby presented for examination. Claims 21-40 are deemed to be patentable over the cited art of record. Should the Examiner be of the opinion that a telephone conference would expedite the prosecution of this case, the Examiner is requested to contact the attorney at the telephone number listed below.

Applicant hereby petitions for a One-Month Extension of Time,  
extending the due date for response from April 4, 2005 to May 4, 2005.  
Please charge the petition fee and any other fee associated with this  
transmittal to Deposit Account No. 50-1123.

May 3, 2005



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